

Chemical Equations Notes

A chemical equation is a method of representing _____ that occur in a chemical reaction.

An equation always starts with what we are reacting (_____) followed by an arrow that points towards what we are making (_____)

Types of chemical reactions:

A) Composition or synthesis

Element + Element -----> Compound

Examples:

Practice:

B) Single Displacement

Element + Compound -----> element + new compound

Examples:

Practice:

C) Decomposition

Compound -----> elements or smaller compounds

***may need heat (___) or electricity (___) to start these reactions

Binary Compounds:

Complex Compounds:

D) Double Displacement

Compound + Compound -----> two new compounds

Steps:

- 1) switch ions
- 2) use oxidation numbers to write formulas
- 3) balance

Examples: